OPTIMUS® TECHNOLOGIES

REDUCE FUEL COSTS. REDUCE EMISSIONS. EASILY.

ADM TRUCKS ACHIEVE SIGNIFICANT CARBON REDUCTIONS THROUGH OPTIMUS PARTNERSHIP

What is biodiesel?

- A renewable fuel alternative to petroleum diesel.
- It is made from reusing cooking oil, waste animal fats and vegetable oils.
- Its production is more environmentally friendly, it helps further reduce carbon emissions over 80 percent.
- It decreases American dependence on foreign oil.
- Biodiesel is 10 times less toxic than table salt.

ADM's Commitment to Sustainability

The world's premier agricultural origination and processing company, ADM, recently launched a new plan to reduce their greenhouse gas (GHG) emissions by 25 percent, and energy intensity by 15 percent, by 2035.

One step they've taken in achieving this goal is transitioning part of their fleet to operate on 100 percent biodiesel (B100) using Optimus Technologies' biodiesel fuel system technology, known as the Vector System.

The Vector System seamlessly bolts on to existing vehicles without the need to rebuild, replace, or significantly modify existing engines, allowing medium and heavy-duty trucks to operate on B100. It is currently in use across the country in a wide variety of vocational applications.

Utilizing Biodiesel's Potential

Biodiesel is a renewable fuel source and a clean alternative to diesel. It is made from recycled cooking oil, animal fats that would otherwise go to waste, as well as agricultural byproducts like soybean and canola oils.

Most vehicles can operate on lower blends of biodiesel such as B20 without the need to modify their engines. This means they are fueling with a blend that is 20 percent biodiesel and 80 percent petroleum diesel.

Fleet sustainability leaders like ADM are looking to operate on B100 to take full advantage of its environmental benefits. B100 is almost entirely sustainable. Vehicles equipped with the Vector System will operate fully on this sustainable biodiesel, aside from startup and shutdown.

New Partnership with Optimus Technologies

ADM outfitted 5 long-haul trucks at their site in Decatur, Illinois with Optimus Technologies' biodiesel fuel system technology this past February.

These daily, high-mileage trucks are being used in daily fleet operations. Each vehicle is expected to travel 160,000-180,000 miles and reduce up to 500,000 pounds of CO2 per year.

Advanced monitoring protocols will compare the performance and results of the new technology with five other trucks comprising a control group operating on conventional diesel. All vehicles will be tested in various climates, including sub-zero temperatures.

This new project is designed to evaluate its use for longer-haul over-the-road fleets, potentially opening a pathway to significantly higher volumes of biodiesel in the U.S. truck fleet.

In the two months of this partnership, the five trucks have used a total of 12,074 gallons of B100 fuel. This is equivalent to reducing **227,015 pounds of CO2** from the atmosphere.

Over the past two months, ADM trucks have used:

12,074 gallons of biodiesel.

Resulting in:

227,015 pounds of CO2 reduction

Source: EPA website

Save on Fuel Costs and Vehicle Maintenance

Federal policy has provided various incentives that lend a hand in keeping the market price of biodiesel competitive.

In Illinois, B100 biodiesel is the lowest-cost and quickest fleet solution to achieving sustainability goals and carbon reductions due to the following benefits:

- $1 per gallon federal biodiesel tax credit
- Illinois state sales tax incentive for biodiesel
- Fuel cost savings
- Maintenance improvements (including reduced soot accumulation on aftertreatment

We have an opportunity to use innovative technologies to multiply the environmental and economic benefits of biodiesel.

- Steve Finn, ADM's Vice President for Trucking

In addition to ADM, Optimus, and the National Biodiesel Board, this project is supported by the American Lung Association, the Illinois Soybean Association, and the Missouri Soybean Merchandising Council.

QUESTIONS? COMMENTS?
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